



Mystery Architecture

SCHOOL: _____ TEAM NUMBER: _____

NAME(S): _____

Problem Solving Challenge:

Design and construct the tallest free-standing tower that is capable of supporting a tennis ball at its highest point. The tower must support the tennis ball for at least 10 seconds to allow for an accurate height measurement. You will have 35 minutes to design and construct your tower. If you finish early, you may request to have your tower evaluated early by the event supervisor.

Primary Dimension – Height of the Tower

Tier 1:

- Tower is free-standing and supports tennis ball for at least 10 seconds.
- Height of tower measured to the top of the tennis ball (nearest mm).

Tier 2:

- Tower is free-standing but will not support tennis ball.
- Height of tower measured to the highest point on the tower (nearest mm).



Secondary Dimension (Tie Breaker) – Width of tower base at its widest point.

In the event of a tie in tower height, a linear (straight line) measurement will be made of the base of the tower at its widest point. The tower with the shorter/shortest secondary measurement will be ranked ahead of the other tower.

DO NOT WRITE BELOW THIS LINE – EVENT SUPERVISOR ONLY

1. Supports Tennis Ball:	YES / NO
2. Tier:	1 / 2
3. Tower Height (nearest mm):	_____
4. Width of base (nearest mm):	_____
5. Tie Breaker Required:	YES / NO
6. Final Ranking:	_____